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TI Manufacture of composition for preparing cellular fly
ash-concrete for walls and heat-insulating structures
IN Belov, V. V.; Kulagin, Yu. V.; Gevorkyan, V. A.
PA Russia
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CC 58-2 (Cement, Concrete, and Related Building Materials)
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AB The compn. comprises cement 25.6-32.8, fly ash from thermoelec. plant 32.7-41, sodium sulfate 0.51-0.66, foaming agent (e.g., aluminum powder) 0.1-0.26, and tempering water in the balance. Sodium sulfate is used as alkali additive and hardening agent. The manuf. comprises (a) prepg. a viscous raw mix of components, (b) pre-activating fly ash, (c) swelling raw mix, (d) hardening during evapn. or under normal conditions, and (e) activating fly ash by combined grinding of all dry mix components for 20-40 min. Prior to grinding, dry superplasticizer S-3 in amt. of 0.7-1% of cement wt. is added into the mix, and sulfanol surfactant is added into tempering water in amt. of 0.2-0.5% of water. The method improves properties of the compn.
ST cellular concrete cement fly ash thermal insulator wall